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10/791,634	03/02/2004	Yasunori Azuma	450100-04961	3082
FROMMER LAWRENCE & HAUG LLP 745 Fifth Avenue			EXAMINER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/791,634	AZUMA, YASUNORI
Office Action Summary	Examiner	Art Unit
	Arpan P. Savla	2185
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPLEWHICHEVER IS LONGER, FROM THE MAILING DEVELORS - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tind d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on 29 S This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-3 and 5-7 is/are pending in the appending of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-3 and 5-7 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicat ority documents have been receiv au (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on September 29, 2008 has been entered.

Response to Amendment

This Office action is in response to Applicant's communication filed September 29, 2008 in response to the Office action dated August 1, 2008. Claims 1 and 5 have been amended. Claims 1-3 and 5-7 are pending in this application.

REJECTIONS BASED ON PRIOR ART

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. <u>Claims 1-3 and 5-7</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over Goodman et al. (U.S. Patent 6,757,694) (hereinafter

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"Goodman") in view of Allen et al. (U.S. Patent Application Publication 2002/0161852) (hereinafter "Allen"), Golasky et al. (U.S. Patent 6,880,101) (hereinafter "Golasky"), and Tadokoro et al. (U.S. Patent Application Publication 2002/0144056) (hereinafter "Tadokoro").

3. As per claim 1, Goodman discloses a tape library apparatus (col. 2, lines 5-7; Fig. 1) to which a node ID is assigned (col. 2, lines 46-48; Figs. 1 and 5, element 47) and that is connected to a host computer (col. 2, line 33; Fig. 3, element 28), comprising:

a plurality of drives for recording and reproducing data to and from respective large capacity tape recording mediums, the drives having respective interfaces being capable of transferring large capacity data to the host computer (col. 2, lines 7-10, 25-28, and 32-35; Fig. 1, elements 12 and 14; Fig. 3, elements 28 and 29). It should be noted that "reading/read from" is analogous to "reproducing", "data storage media" is analogous "tape recording mediums", and "host system" is analogous to "host computer."

wherein selected drives are assigned respective port IDs that represent mounted order numbers as second addresses (col. 3, lines 43-44; col. 4, lines 38-39) and the interfaces are activated(col. 2, 25-28 and 32-35; Fig. 3, element 29), the second address being used to determine whether a mounted drive is moved to a different port ((col. 3, lines 43-44; col. 4, lines 38-39). It should be noted that "drive position" is analogous to "mounted order number." It should also be noted that it is inherently required the interface be activated in order for the host system to read and write data to

and from the tape drives. Lastly, it should be noted that "determine whether a mounted drive is moved to a different port" is merely an intended use of the "second address."

wherein the serial number identifiers and base WWN are stored in a nonvolatile memory disposed in corresponding drives (col. 2, lines 62-64; col. 4, lines 53-55).

Goodman does not disclose a switch for switching the tape library apparatus between a library mode and one or more other operation modes;

selected drives are assigned respective node IDs as first addresses;

and wherein an address previously assigned to a particular drive upon production is used when (i) the particular drive is not assigned the first address and the second address and (ii) a command causing the particular drive to be assigned the first address and the second address is not received from the host computer.

Allen discloses selected drives are assigned respective node IDs as first addresses and respective port IDs as second addresses, the first address being used to determine whether a drive is new (paragraph 0047, lines 7-8; Fig. 2, elements 255, 260, and 265). It should be noted that "node_name" is analogous to "node ID" and "port_name" is analogous to "port ID." It should also be noted that "determine whether a drive is new" is merely an intended use of the "first address."

Goodman and Allen are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Allen's World Wide Name (WWN), which contains both a node ID and port ID, within Goodman's WWN, which is dependent on drive position, so

as to store Allen's WWN in Goodman's nonvolatile memory such that the nonvolatile memory is located on the drives themselves.

The motivation for doing so would have been to gain the benefit of uniquely identifying and tracking devices connected to a Fibre Channel network through a SCSI bridge (Allen, paragraph 0027). Additionally, the motivation for disposing the nonvolatile memory on the drives themselves would have been to provide the drives with faster access times to the WWNs during operation.

The combination of Goodman/Allen does not disclose a switch for switching the tape library apparatus between a library mode and one or more other operation modes;

wherein an address previously assigned to a particular drive upon production is used when (i) the particular drive is not assigned the first address and the second address and (ii) a command causing the particular drive to be assigned the first address and the second address is not received from the host computer.

Golasky discloses an address previously assigned to a particular drive upon production is used when (i) the particular drive is not assigned the first address and the second address and (ii) a command causing the particular drive to be assigned the first address and the second address is not received from the host computer (col. 5, lines 28-33). It should be noted that "WWN" is analogous to "address that has been assigned to the drive upon production."

The combination of Goodman/Allen and Golasky are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Golasky's WWN within Goodman/Allen's Fibre Channel system because all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded the predictable results of assigning Fibre Channel devices with unique global IDs that identify the device's vendor and serial number, thus providing SAN management which includes compartmentalization, authorization, and securitization.

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The combination of Goodman/Allen/Golasky does not disclose a switch for switching the tape library apparatus between a library mode and one or more other operation modes.

Tadokoro discloses a switch for switching the tape library apparatus between a library mode and one or more other operation modes (paragraph 0290; Fig. 40, element 252).

The combination of Goodman/Allen/Golasky and Tadokoro are analogous art because they are from the same field of endeavor, that being tape library systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Tadokoro's operating mode setting method within Goodman/Allen/Golasky's tape library because all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded the predictable results of setting the service mode for a trustworthy remote

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control user and setting the user mode for a less trustworthy remote control user, thus, the remote control user is able to perform an operation depending on the creditability with the host side.

- 4. As per claim 2, the combination of Goodman/Allen/Golasky/Tadokoro discloses when a new drive is mounted on the tape drive apparatus, the newly mounted drive is assigned the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, lines 39-42; col. 2, lines 28-32). It should be noted that WWN assigned to the new drive is taken to be the combination of Goodman's WWN and Allen's WWN as established in the 35 USC 103 rejection of claim 1 above.
- 5. **As per claim 3**, the combination of Goodman/Allen/Golasky/Tadokoro discloses when the mounted position of each of the selected drives is changed, the moved drive is assigned the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, line 60 col. 5, line 6; col. 2, lines 28-32). It should be noted that when a drive is moved its position in the library will change. However, since the WWN is based in part on drive position, the moved drive will be assigned a new WWN.
- 6. As per claim 5, Goodman discloses a method of controlling a tape library apparatus to which a node ID is assigned (col. 2, lines 46-48; Figs. 1 and 5, element 47) and that is connected to a host computer (col. 2, line 33; Fig. 3, element 28), comprising the steps of:

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assigning respective port IDs that represent mounted order numbers as second addresses to a plurality of selected drives (col. 3, lines 43-44; col. 4, lines 38-39) for recording and reproducing data to and from respective large capacity tape recording mediums (col. 2, lines 7-10, 25-28, and 32-35; Fig. 1, elements 12 and 14; Fig. 3, elements 28 and 29), the selected drives having respective interfaces being capable of transferring large capacity data to the host computer (col. 2, 25-28; Fig. 3, element 29),

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storing the serial number identifiers and base WWN are stored in a nonvolatile memory disposed in corresponding drives (col. 2, lines 62-64; col. 4, lines 53-55).

determining whether a mounted drive is moved to a different port based on the second address (col. 3, lines 43-44; col. 4, lines 38-39). It should be noted that "determining whether a mounted drive is moved to a different port" is merely an intended use of the "second address."

activating the interfaces (col. 2, 25-28 and 32-35; Fig. 3, element 29). *Please* see citation notes for claim 1 above.

Goodman does not disclose switching the tape library apparatus between a library mode and one or more other operation modes;

assigning respective node IDs as first addresses to a plurality of selected drives; and using an address previously assigned to a particular drive up production when the particular drive is not assigned the first address and the second address and a command causing the particular drive to be assigned the first address and the second address is not received from the host computer.

Allen discloses assigning respective node IDs as first addresses and respective port IDs as second addresses to a plurality of selected drives (paragraph 0047, lines 7-8; Fig. 2, elements 255, 260, and 265). *Please see the citation notes for claim 1 above.* determining whether a drive is new based on the first address (paragraph 0047, lines 7-8; Fig. 2, elements 255, 260, and 265). *It should also be noted that "determining*

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Allen's World Wide Name (WWN), which contains both a node ID and port ID, within Goodman's WWN, which is dependent on drive position, so as to store Allen's WWN in Goodman's nonvolatile memory such that the nonvolatile memory is located on the drives themselves.

whether a drive is new" is merely an intended use of the "first address."

The motivation for doing so would have been to gain the benefit of uniquely identifying and tracking devices connected to a Fibre Channel network through a SCSI bridge (Allen, paragraph 0027). Additionally, the motivation for disposing the nonvolatile memory on the drives themselves would have been to provide the drives with faster access times to the WWNs during operation.

The combination of Goodman/Allen does not disclose switching the tape library apparatus between a library mode and one or more other operation modes;

using an address previously assigned to a particular drive up production when the particular drive is not assigned the first address and the second address and a command causing the particular drive to be assigned the first address and the second address is not received from the host computer.

Golasky discloses using an address previously assigned to a particular drive up production when the particular drive is not assigned the first address and the second address and a command causing the particular drive to be assigned the first address and the second address is not received from the host computer (col. 5, lines 28-33).

Please see the citation note for claim 1 above.

The combination of Goodman/Allen and Golasky are analogous art because they are from the same field of endeavor, that being Fibre Channel systems.

At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Golasky's WWN within Goodman/Allen's Fibre Channel system because all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded the predictable results of assigning Fibre Channel devices with unique global IDs that identify the device's vendor and serial number, thus providing SAN management which includes compartmentalization, authorization, and securitization.

The combination of Goodman/Allen/Golasky does not disclose switching the tape library apparatus between a library mode and one or more other operation modes.

Tadokoro discloses switching the tape library apparatus between a library mode and one or more other operation modes (paragraph 0290; Fig. 40, element 252).

The combination of Goodman/Allen/Golasky and Tadokoro are analogous art because they are from the same field of endeavor, that being tape library systems.

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At the time of the invention it would have been obvious to a person of ordinary skill in the art to implement Tadokoro's operating mode setting method within Goodman/Allen/Golasky's tape library because all the claimed elements were known in the prior art and one skilled in the art could have combined the elements as claimed by known methods with no change in their respective functions, and the combination would have yielded the predictable results of setting the service mode for a trustworthy remote control user and setting the user mode for a less trustworthy remote control user, thus, the remote control user is able to perform an operation depending on the creditability with the host side.

- As per claim 6, the combination of Goodman/Allen/Golasky/Tadokoro discloses when a new drive is mounted on the tape drive apparatus, assigning the newly mounted drive the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, lines 39-42; col. 2, lines 28-32). *Please see the citation note for claim 2 above.*
- 8. **As per claim 7**, the combination of Goodman/Allen/Golasky/Tadokoro discloses when the mounted position of each of the selected drives is changed, assigning the moved drive the first address and the second address in accordance with a command received from the host computer (Goodman, col. 4, line 60 col. 5, line 6; col. 2, lines 28-32). *Please see the citation note for claim 3 above.*

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Response to Arguments

9. Applicant's arguments filed September 29, 2008 with respect to <u>claims 1-3 and</u>

<u>5-7</u> have been fully considered but they are not persuasive.

- 10. With respect to Applicant's argument regarding a switch for switching the tape library apparatus between a library mode and one or more other operation modes, which appears on page 7 of the communication filed September 29, 2008, this argument has been considered but is moot in view of the new ground of rejection above.
- 11. With respect to Applicant's argument regarding the nonvolatile memory, which appears on pages 8-9 of the communication filed September 29, 2008, the Examiner respectfully disagrees and refers Applicant to the remarks on page 2 of the Advisory Action dated October 10, 2008.
- 12. As for Applicant's arguments with respect to the dependent claims, the arguments rely on the allegation that the independent claims are allowable and therefore for the same reasons the dependent claims are allowable. However, as addressed above, the independent claims are not allowable, thus, Applicant's arguments with respect to the dependent claims are not persuasive.

Conclusion

STATUS OF CLAIMS IN THE APPLICATION

The following is a summary of the treatment and status of all claims in the application as recommended by MPEP 707.70(i):

CLAIMS REJECTED IN THE APPLICATION

Per the instant office action, claims 1-3 and 5-7 have received a first

action on the merits and are subject of a first action non-final.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Arpan P. Savla whose telephone number is (571) 272-

1077. The examiner can normally be reached on M-F 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sanjiv Shah can be reached on (571) 272-4098. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

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/Arpan Savla/ Examiner, Art Unit 2185 January 4, 2009 /Stephen Elmore/ Primary Examiner, Art Unit 2185